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| *Software Project Team QAFRM\_Vldt\_SAD8* |

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| Project Name: | PharmaCare Project |
| Project Manager: | Jakob |
| Systems Analyst: | Brayden |
| Date Completed: | 20/11/18 |
| Date Submitted: | 22/11/18 |
| Date Archived: | 22/11/18 |

## Analysis

Project Requirements (**Summary**) - the following have been analysed and documented:

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| # | Item | Status/Comments |
| 1 | Hardware requirements | Hardware Requirements:   * CPU: 2.5Ghz+ * RAM: 12GB+ * Storage: 250GB+ |
| 2 | Software requirements | * Visual Studio 2017 * Windows 10 |
| 3 | Stakeholder analysis | Yes, the stakeholders have been analysed and consist of the employees, and patients. |
| 4 | Security requirements and considerations | * Up to date operating systems * A recommended and proven anti-virus software * No installation of any other software not listed unless authorised * Any passwords which are being used are not to be written down but to be put into LastPass |
| 5 | Business and application processes | Yes, the business and application processes have been discussed within the SRS and further in documentation |
| 6 | Data requirements (Conceptual Model / ERD / Normalisation) | Yes, the data requirements have been discussed throughout development and within documentation. |

Hardware Requirements - the following have been analysed and documented:

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| # | Item | Status/Comments |
| 1 | Networking (hardware / software, cabling, etc.) | Yes, the networking for the application have been analysed and documented but include:  Hardware:  Server   * CPU: 2.5Ghz+ * RAM: 32GB+ * Storage: 10TB+   Software:  Server   * Windows server 2019 (Latest Version) |
| 2 | User PCs and laptops (including screens, keyboards, mouse graphics tablets, etc.) | Yes, the required pc’s and devices have been analysed and documented but include:  Laptops: Can be used if they have   * CPU: 2.0Ghz * RAM: 8GB+ * Storage: 250GB+ * Anti-virus software   User PCs:  These must match the hardware recommendations specification.  Keyboard: **Recommended** Logitech K120 OR any qwerty keyboard which supports numpad and windows.  Screen: 16:9 aspect ratio monitor  Mouse: wired or wireless mouse |
| 3 | Computer tablets, mobile phones, etc. | Yes, the requirements for these include:  Mobile Phones:  Android Marshmallow or Oreo  IOS 12  Computer Tablets: Require windows OS |
| 4 | Peripherals (including printers, scanners, modems, etc.) | Printer & Scanner: **Recommended** Fuji Xerox CM405df  Modem: D-Link DIR-878 Gigabit Modem Router |
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Software Requirements - the following have been analysed and documented:

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| # | Item | Status/Comments |
| 1 | Additional third-party software requirements | Yes, additional third party software have been analysed and include Microsoft Office and Atomineer. |
| 2 | Links and data transfers with third-party software / products. | As for transferring data Google Drive can be used to store and transfer files, while in the office local servers can be used to transfer larger files between systems. |
| 3 | Operating System requirements | Yes, the operating system requirements have been documented and have been |
| 4 | Specific software configurations requirements | Yes, specific software configuration requirements have been documented. |
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Stakeholder Analysis:

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| # | Item | Status/Comments |
| 1 | Groups of stakeholders have been identified. | The groups of stakeholders have been identified and are primarily the employees which will be using the application. Another stakeholder will include the patients who will be affected by the operations of the business and the new application through more efficient service. |
| 2 | Specific requirements of each group have been identified. | Yes, the specific requirements of each group have been identified based of the provided SRS document and have shaped the development of the application. |
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Security Requirements and Considerations:

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| # | Item | Status/Comments |
| 1 | System security requirements have been detailed. | Yes, system security has been detailed above in security requirements |
| 2 | User groups and their respective access levels have been detailed. | Yes, the user groups and their access levels have been detailed within the SRS documentation |
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Business and Application Process Analysis - the following charts / discussions have been presented:

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| # | Item | Status/Comments |
| 1 | IPO Chart or equivalent | Some of the input, processing and output required for the application has been presented within the SRS. Further discussion has taken place during the development but no chart has been currently designed. |
| 2 | TOE chart or equivalent | The task, object, and event chart has been presented within the SRS documentation. |
| 3 | Structured chart or equivalent | A structured chart has been displayed within the SRS documentation |
| 4 | Selected pseudo code | Selected pseudo code has not currently been presented. |
| 5 | Class diagram(s) or equivalent | Class diagrams have been presented within the SRS. |
| 6 | The UML diagrams - Use Case, Sequence, Activity and/or State | Yes, UML diagrams have been discussed and presented within the SRS documentation. |
| 7 | Data Flow Diagram, Process Flow or equivalent | Yes, the process flow for the application has been discussed within the SRS and has been further discussed throughout the development. |

Data Requirements Analysis - the following have been presented:

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| # | Item | Status/Comments |
| 1 | Conceptual Model | A conceptual model has not currently been completed. |
| 2 | Entity Relationship Diagram | Entities, and required relationships have been identified as well as Primary and foreign keys. A diagram has not been presented at this current time. |
| 3 | Normalisation | Database normalization has been performed by organizing the columns, and tables of the database. |
| 4 | Data dictionary | The data dictionary has been introduced within the SRS document but we have further thought about how the database will be structured and the relationship it will have between its elements |
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## Design

Project Design has been considered and documented:

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| # | Item | Status/Comments |
| 1 | An application map has been prepared. | No, an application map has not currently been prepared. |
| 2 | Sample screens have been presented and annotated. | Yes, sample screens have been used in the navigation buttons for the dropdown content. |
| 3 | Application navigation has been optimised. | Yes, throughout the application the navigation has been optimised to be consistent and easy to use. |
| 4 | The business processes have been considered in the application design – reflected in the flow of the application and the screen design. | Yes, throughout designing the application the business processes and needs have been thought of and contributed to the final design. |
| 5 | The design presents an overall sense of consistency. | Yes, the design presents an overall sense of consistency throughout each page. |
| 6 | Is the design **complete**? | Yes, the design has been finalised and decided upon. |
| 7 | Is the design **accurate**? | Yes, the design is accurate. |
| 8 | Is the design **consistent**? | Yes, the design is consistent throughout each page. |
| 9 | Is the design **feasible**? | Yes, the design is feasible since it is easy to use and allows for full functionality. |

User Interface Design:

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| # | Item | Y/N |
|  | Application Navigation |  |
| 1.1 | An optimal number of menu and data entry forms used | Y |
| 1.2 | Names on various menu form buttons match the titles on the forms & reports | Y |
| 1.3 | 3 key clicks to move between most areas of the application | Y |
| 1.4 | Optimal menu-button access for all forms and reports | Y |
| 1.5 | Closely associated forms or reports are easily accessed from each other | Y |
| 1.6 | An initial form or menu is presented when the database file is first loaded | Y |
| 1.7 | Form modality has been applied appropriately | Y |
|  | Application Consistency |  |
| 2.1 | Button & toolbar words & icons presented consistently throughout application | Y |
| 2.2 | Button and toolbar ordering and relative positioning presented consistently | Y |
| 2.3 | Drop down menu items and lists worded and positioned consistently | Y |
| 2.4 | Buttons, toolbars & menus consistent with standards where appropriate | Y |
| 2.5 | Colours used consistently and/or effectively between the various forms | Y |
|  | **Form Layout and Colour** |  |
|  | **Balance of Forms and Reports - Formal for Business applications** |  |

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| 3.1 | Graphic elements have appropriate weight and density | Y |
| 3.2 | Business style forms and reports - static or symmetrical | Y |
| 3.3 | Page looks stable, components are positioned in an ordered/organised manner | Y |
| 3.4 | Appropriate use of form buttons, toolbars and drop-down menus | Y |
|  | **Proportion of Forms and Reports** |  |
| 3.5 | Individual components (fields & groups) are in proportion to the form/report | Y |
| 3.6 | Individual components (fields & groups) are in proportion to each other | Y |
| 3.7 | Individual components are appropriately grouped | Y |
| 3.8 | Elements are presented in an order and position relative to their importance | Y |
| 3.9 | Breakup of space, graphics, 3Dboxes, borders, lines, buttons, labels & fields | Y |
|  | **Harmony of Forms and Reports** |  |
| 3.10 | All the elements of the form/report work together to promote one message | Y |
| 3.11 | The form/report gives the impression of cohesiveness and unity | Y |
| 3.12 | Elements complement each other and are appropriately positioned | Y |
| 3.13 | The page flow is appropriate - one direction versus random | Y |
|  | **Sequence on Forms and Reports** |  |
| 3.14 | Readers can scan the form or report easily in a Z format | Y |
| 3.15 | The page flows from left to right and top to bottom | Y |
|  | **Other Visual and Form/Report Considerations** |  |
| 3.16 | Acceptable business colours & textures (Company colours?) | Y |
| 3.17 | Appropriate use of 3D and/or shadowing effects | N |
| 3.18 | Forms/Reports display date & time, appropriate heading & company logo/name | Y |
| 3.19 | Reports presents page numbers & what the report is sorted and/or grouped by | Y |
| 3.20 | Report indicates the name of the application producing the report | Y |
| 3.21 | Field and button prompts are clear and appropriate | Y |
| 3.22 | Use of font styles easy to read and appropriate to business application | Y |
| 3.23 | Application colours cater for grey-scale laptops and colour blindness | Y |
| 3.24 | Application forms have been designed for a SVGA screen | N |
|  | **Error Trapping, Messages & Parameters** |  |
| 4.1 | Inappropriate user input is effectively captured or prevented | Y |
| 4.2 | Messages and responses to inappropriate user input are appropriate | Y |
| 4.3 | Forms are designed so as to minimise possible inappropriate user input | Y |
| 4.4 | Filter or parameter dialog boxes/forms are used effectively | Y |
| 4.5 | Filter forms are accompanied by clear ‘business-friendly’ instructions and title | Y |
| 4.6 | Filter forms are appropriately designed (see form layout above) | Y |

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|  | **Memory, Default and List Considerations** |  |
| 5.1 | Use of the application requires little or no use of short term memory | Y |
| 5.2 | Combo and list boxes enhance the application’s ease of use | Y |
| 5.3 | Regular use of application does not require reference to a manual or paper lists | Y |
| 5.4 | Defaults values in fields have been used to enhance ease of use | Y |
|  | **Application Help and About** |  |
| 6.1 | On-line help is available in an appropriate format | N |
| 6.2 | Help is context sensitive by pressing F1 | N |
| 6.3 | The level of help is appropriate to application users (eg: novice vs expert) | Y |
| 6.4 | The language level is appropriate to the application users | Y |
| 6.5 | The standard help items such as contents, search and index are available | Y |
| 6.6 | All contents screen(s) contain 15 topics or less | Y |
| 6.7 | The levels of sub-contents screens are limited to 3 or less | Y |
| 6.8 | The contents topic hierarchy is well considered | Y |
| 6.9 | The search keywords are well considered | N |
| 6.10 | The browse sequence of help pages is well considered | N |
| 6.11 | Appropriate fonts, sizes and layout considerations have been addressed | Y |
| 6.12 | Colour use caters for grey-scale laptops and colour blindness | N |
| 6.13 | Colour has been applied effectively - enhances harmony | Y |
| 6.14 | Help windows do not cause eye strain (no bright, faint or camouflaged text) | N |
| 6.15 | Help windows have been designed for SVGA monitors | N |
| 6.16 | An ‘About’ form has been included with version, date and author information | N |
|  | **Use of Colour** |  |
| 7.1 | Extremes of the spectrum (eg red & blue) are not used together | Y |
| 7.2 | Forms used for long periods have natural soothing background colour, eg: grey | Y |
| 7.3 | Strong, intense or complementary colours are used sparingly, mainly for accents | Y |
| 7.4 | Red has only been used for errors, if at all | N |
| 7.5 | Colour has been used to identify similar functions | Y |
| 7.6 | Related colours / saturations have been used effectively for grouping | Y |
| 7.7 | Colour has been used effectively to augment (promote) tasks | Y |
| 7.8 | Colour has been used with other redundant cues (eg: 3D effects, borders, icons) | Y |
| 7.9 | Value (dark, medium, light) differences used to promote sharp edges as required | Y |
| 7.10 | Cultural considerations have been taken into account | N |
| 7.11 | There is no confusing use of small items, items far apart, colours close in spectrum | Y |
| 7.12 | Warm colours (which appear larger) have been effectively used | Y |

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| 7.13 | Colours are user configurable | N |
| 7.14 | Less than 4 colours have been used per screen / form | Y |

Additional Comments:

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| Systems Analyst Signature: | Brayden | **Date:** | 22/11/18 |
| Project Manager Signature: | Jakob | **Date:** | 22/11/18 |